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FILE COVERS 1907 - 31 Aug 2004 VOL 141 ISS 10

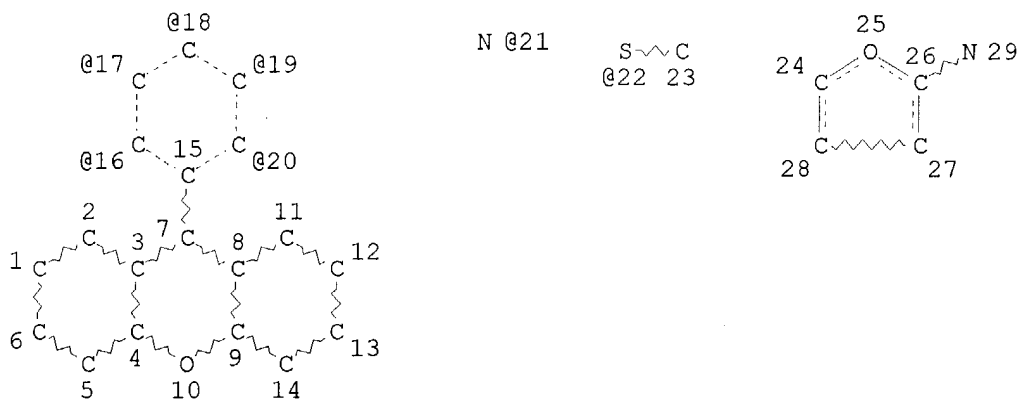
FILE LAST UPDATED: 30 Aug 2004 (20040830/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

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L1 STR



VPA 21-16/17/18/19/20 U

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NODE ATTRIBUTES:

NSPEC IS R AT 21

NSPEC IS RC AT 23

NSPEC IS R AT 29

CONNECT IS E2 RC AT 22

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L3 4 SEA FILE=REGISTRY SSS FUL L1  
 L4 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

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L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:338638 HCAPLUS

DOCUMENT NUMBER: 134:350265

TITLE: Water-soluble red-emitting fluorescent rhodamine dyes and energy-transfer dye pairs and conjugates for assays and stains

INVENTOR(S): Lee, Linda G.; Graham, Ronald J.; Werner, William E.; Swartzman, Elana; Lu, Lily

PATENT ASSIGNEE(S): PE Corporation, USA

SOURCE: PCT Int. Appl., 172 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

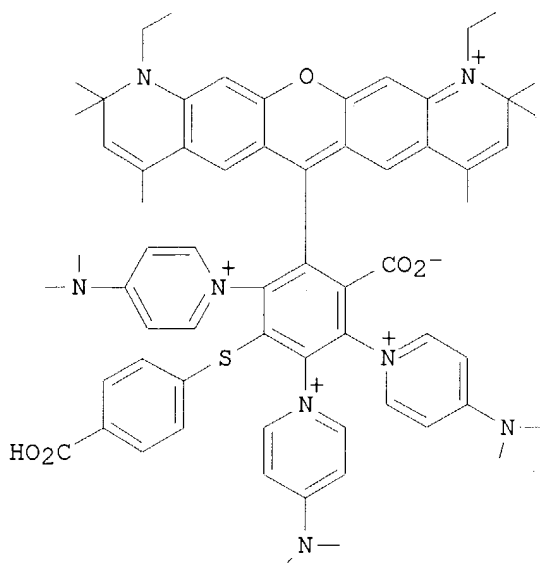
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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WO 2001032783	A1	20010510	WO 2000-US30414	20001101
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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US 6372907	B1	20020416	US 2000-661206	20000914
CA 2358923	AA	20010510	CA 2000-2358923	20001101
EP 1141137	A1	20011010	EP 2000-982085	20001101
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AT 251658	E	20031015	AT 2000-982085	20001101
AU 770445	B2	20040219	AU 2001-19157	20001101
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			US 2000-661206	A 20000914
			WO 2000-US30414	W 20001101

OTHER SOURCE(S): MARPAT 134:350265

GI



AB The present invention provides novel, water-soluble, red-emitting fluorescent rhodamine dyes and red-emitting fluorescent energy-transfer dye pairs, as well as labeled conjugates comprising the same and methods for their use. The dyes, energy-transfer dye pairs and labeled conjugates are useful in a variety of aqueous-based applications, particularly in assays involving staining of cells, protein binding, and/or anal. of nucleic acids, such as hybridization assays and nucleic acid sequencing. A fluorescent-linked immunosorbent assay (FLISA) for human IL-8 used anti-human IL-8 antibody conjugated with rhodamine dye I (preparation given) and monoclonal anti-human IL-8 antibody-coated beads.

IT **339150-41-3 339150-42-4**

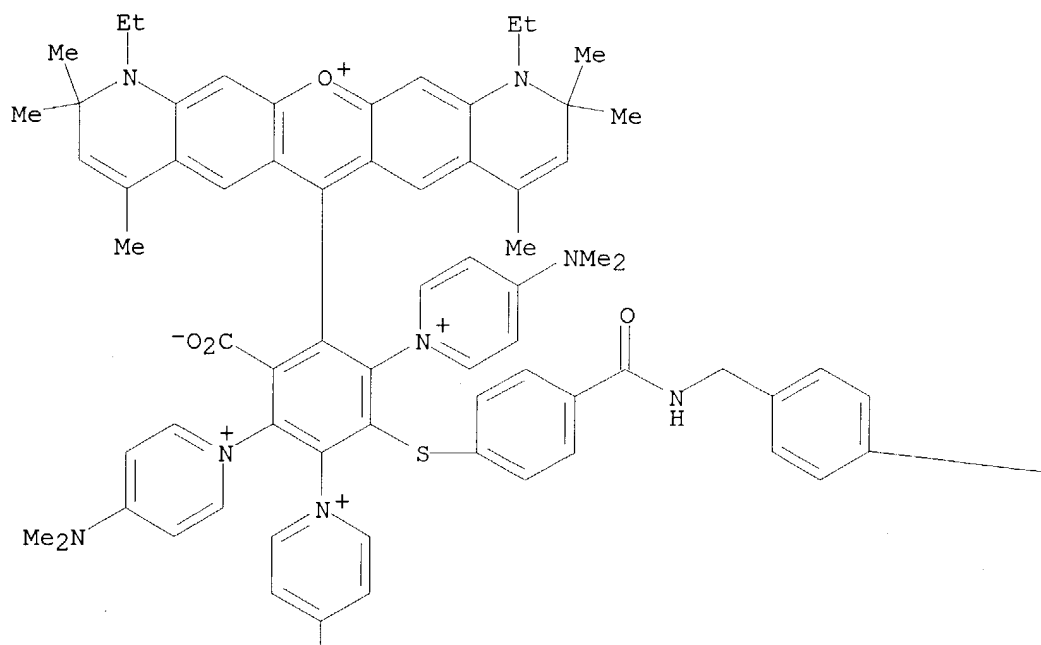
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(as FRET-labeled terminator for Sanger-type sequencing; water-soluble red-emitting fluorescent rhodamine dyes and energy-transfer dye pairs and conjugates for assays and stains)

RN 339150-41-3 HCAPLUS

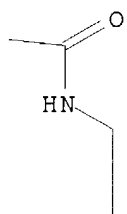
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Absolute stereochemistry.

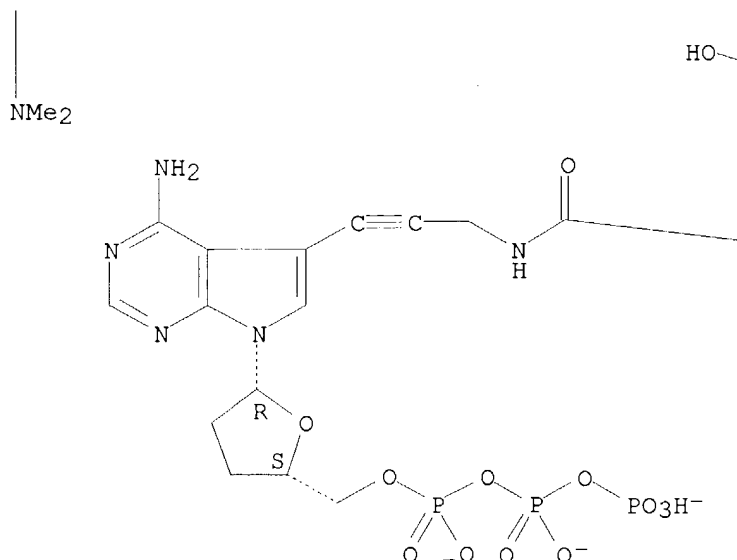
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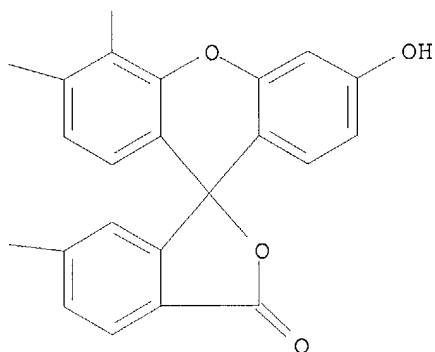
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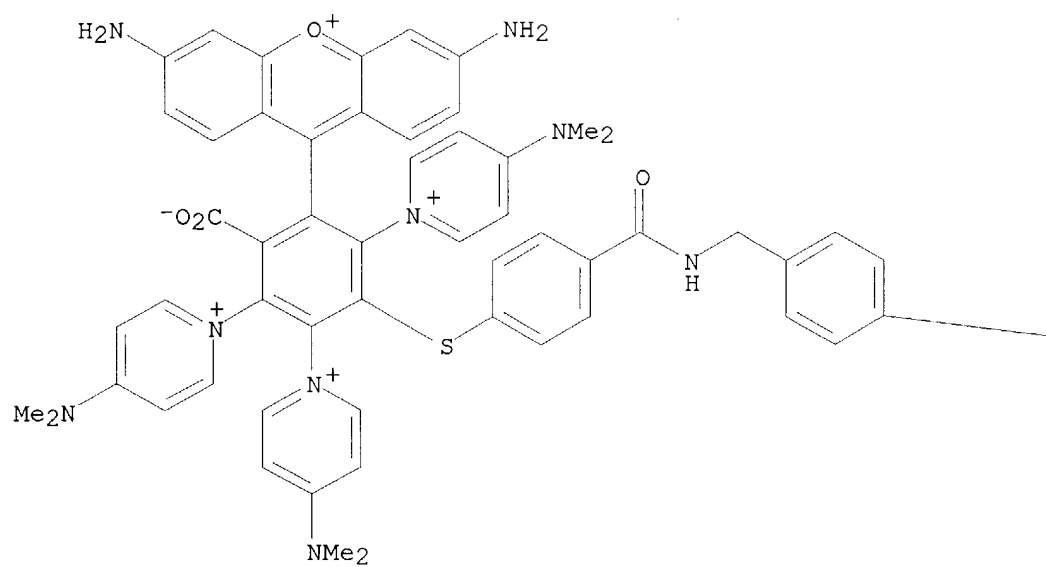


RN 339150-42-4 HCAPLUS

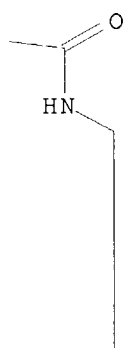
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 INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

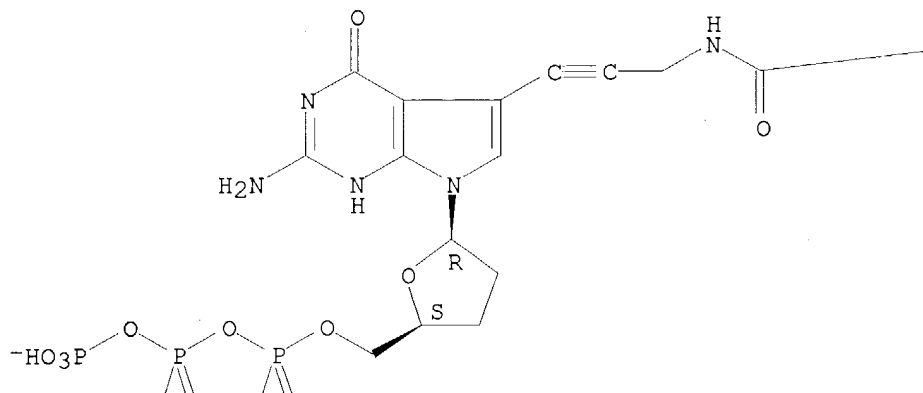


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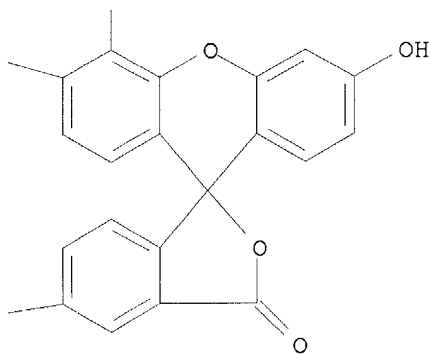


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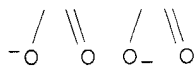
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PAGE 3-A



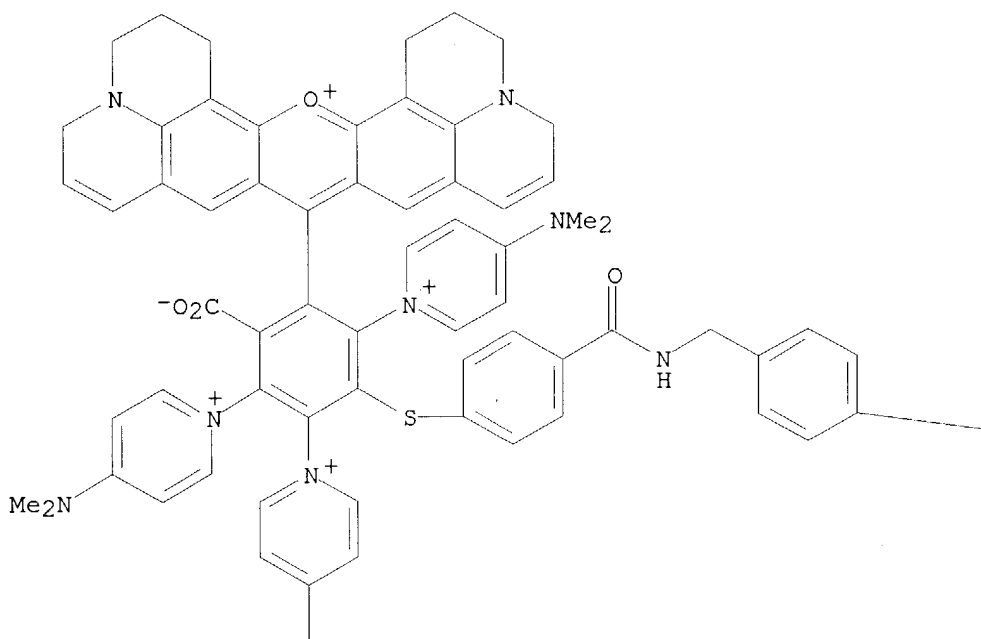
IT **339150-43-5**  
 RL: ARG (Analytical reagent use); PRP (Properties); RCT (Reactant); ANST  
 (Analytical study); RACT (Reactant or reagent); USES (Uses)  
 (water-soluble red-emitting fluorescent rhodamine dyes and energy-transfer  
 dye pairs and conjugates for assays and stains)  
 RN 339150-43-5 HCAPLUS

Searched by P. Ruppel

CN    Pyridinium, 1,1',1''-[3-[[4-[[[4-[[[5-[[[3-[4-amino-1,2-dihydro-2-oxo-1-  
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 propynyl]amino]carbonyl]-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-  
 [9H]xanthen]-4'-yl]methyl]amino]carbonyl]phenyl]methyl]amino]carbonyl]phen  
 yl]thio]-6-carboxy-5-(2,3,16,17-tetrahydro-1H,5H,13H,15H-xantheno[2,3,4-  
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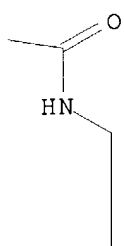
Absolute stereochemistry.

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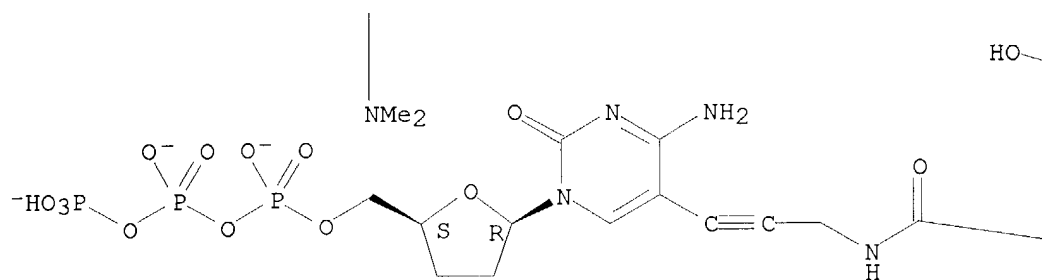




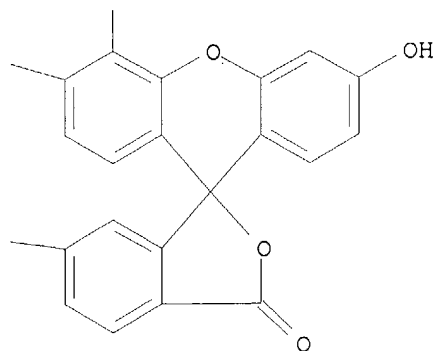
PAGE 1-B



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REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2001:131227 HCAPLUS  
 DOCUMENT NUMBER: 134:179914  
 TITLE: Water-soluble rhodamine dyes and conjugates thereof  
 INVENTOR(S): Lee, Linda G.; Graham, Ronald J.; Werner, William E.;  
 Swartzman, Elana; Lu, Lily  
 PATENT ASSIGNEE(S): PE Corp., USA  
 SOURCE: U.S., 52 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6191278	B1	20010220	US 1999-433093	19991103
US 6372907	B1	20020416	US 2000-661206	20000914
CA 2358923	AA	20010510	CA 2000-2358923	20001101
WO 2001032783	A1	20010510	WO 2000-US30414	20001101
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1141137	A1	20011010	EP 2000-982085	20001101
EP 1141137	B1	20031008		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
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AT 251658	E	20031015	AT 2000-982085	20001101
AU 770445	B2	20040219	AU 2001-19157	20001101
US 2003055257	A1	20030320	US 2001-7253	20011024
PRIORITY APPLN. INFO.:			US 1999-433093	A3 19991103
			US 2000-661206	A 20000914
			WO 2000-US30414	W 20001101

OTHER SOURCE(S): MARPAT 134:179914

AB The present invention provides novel, water-soluble, red-emitting fluorescent rhodamine dyes and red-emitting fluorescent energy-transfer dye pairs, as well as labeled conjugates comprising the same and methods for their use. The dyes, energy-transfer dye pairs and labeled conjugates are useful in a variety of aqueous-based applications, particularly in assays involving staining of cells, protein binding, and/or anal. of nucleic acids, such as hybridization assays and nucleic acid sequencing.

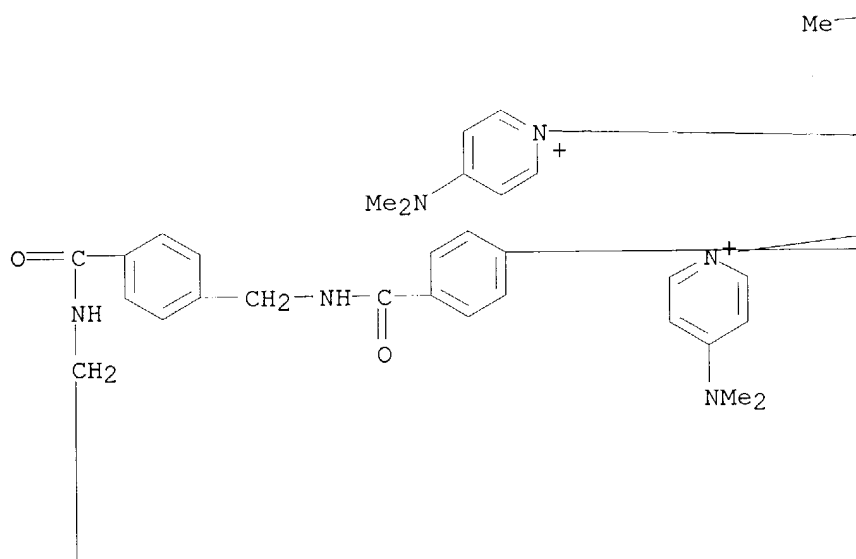
IT 326801-89-2P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (dye; production of fluorescent rhodamine dyes for biochem. labeling)

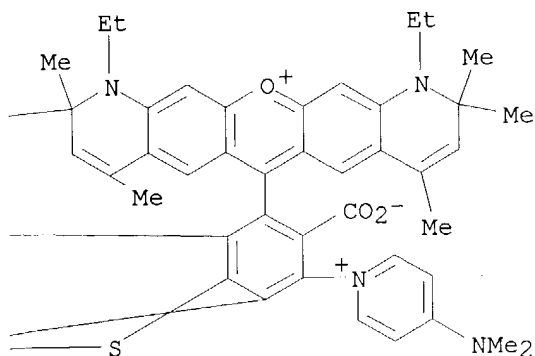
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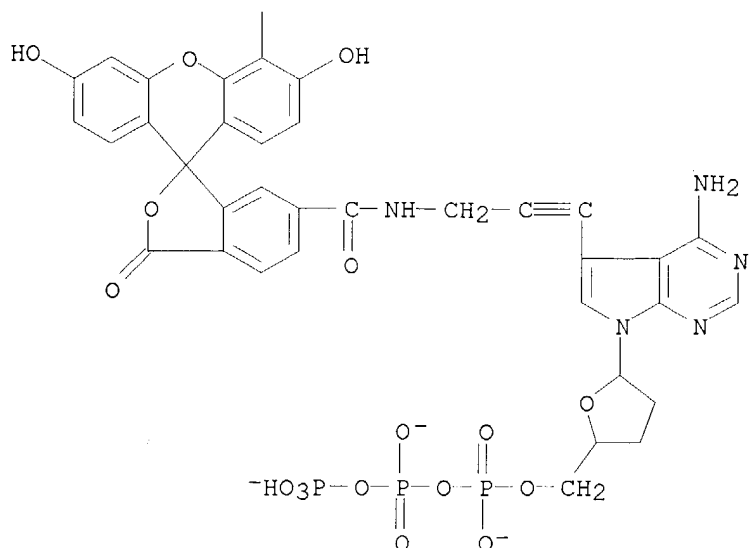
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REFERENCE COUNT:

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